

09/332803

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| USPT,PGPB,JPAB,EPAB,DWPI,TDBD | PER.C6 | 9 | <u>L1</u> |

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| 6168941 [pn] | 2 |

Database:

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6168941 [pn]

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Search Results - Record(s) 1 through 5 of 5 returned.

☐ 1. Document ID: US 6265212 B1

L10: Entry 1 of 5

File: USPT

Jul 24, 2001

US-PAT-NO: 6265212

DOCUMENT-IDENTIFIER: US 6265212 B1

TITLE: Packaging systems for human recombinant adenovirus to be used in gene therapy

DATE-ISSUED: July 24, 2001

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---------------------|-------------|-------|----------|---------|
| Fallaux; Frits J. | Leiderdorp | N/A | N/A | NLX |
| Hoeben; Robert C. | Leiden | N/A | N/A | NLX |
| Bout; Abraham | Moerkapelle | N/A | N/A | NLX |
| Valerio; Domenico | Leiden | N/A | N/A | NLX |
| van der Eb; Alex J. | Oegstgeest | N/A | N/A | NLX |
| Schouten; Govert | Leiden | N/A | N/A | NLX |

US-CL-CURRENT: 435/320.1; 424/93.21, 435/235.1, 435/325,
435/69.1, 536/23.1

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWC | Draw Desc | Image |
|------|-------|----------|-------|--------|----------------|------|-----------|--------|-----|-----------|-------|
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☐ 2. Document ID: US 6238893 B1

L10: Entry 2 of 5

File: USPT

May 29, 2001

US-PAT-NO: 6238893

DOCUMENT-IDENTIFIER: US 6238893 B1

TITLE: Method for intracellular DNA amplification

DATE-ISSUED: May 29, 2001

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|-------------------------|-------------|-------|----------|---------|
| Hoeben; Robert Cornelis | Leiden | N/A | N/A | NLX |
| Bout; Abraham | Moerkapelle | N/A | N/A | NLX |

US-CL-CURRENT: 435/91.1; 435/455

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw Desc | Image |
|------|-------|----------|-------|--------|----------------|------|-----------|--------|------|-----------|-------|
|------|-------|----------|-------|--------|----------------|------|-----------|--------|------|-----------|-------|

☐ 3. Document ID: US 6113913 A

L10: Entry 3 of 5 File: USPT Sep 5, 2000

US-PAT-NO: 6113913

DOCUMENT-IDENTIFIER: US 6113913 A

TITLE: Recombinant adenovirus

DATE-ISSUED: September 5, 2000

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|--------------------|-----------|-------|----------|---------|
| Brough; Douglas E. | Olney | MD | N/A | N/A |
| Kovesdi; Imre | Rockville | MD | N/A | N/A |

US-CL-CURRENT: 424/233.1; 424/199.1, 435/235.1, 435/320.1,
435/325, 435/69.1

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw Desc | Image |
|------|-------|----------|-------|--------|----------------|------|-----------|--------|------|-----------|-------|
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☐ 4. Document ID: US 6033908 A

L10: Entry 4 of 5 File: USPT Mar 7, 2000

US-PAT-NO: 6033908

DOCUMENT-IDENTIFIER: US 6033908 A

TITLE: Packaging systems for human recombinant adenovirus to be
used in gene therapy

DATE-ISSUED: March 7, 2000

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|-------------------------|----------------|-------|----------|---------|
| Bout; Abraham | Ar Moerkapelle | N/A | N/A | NLX |
| Hoeben; Robert Cornelis | Ex Leiden | N/A | N/A | NLX |

US-CL-CURRENT: 435/325; 424/93.21, 435/320.1, 435/455,
435/69.1, 514/44, 536/23.1

| Full | Title | Citation | Front | Review | Classification | Date | Reference | KWIC | Draw Desc | Image |
|------|-------|----------|-------|--------|----------------|------|-----------|------|-----------|-------|
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☐ 5. Document ID: US 5994128 A

L10: Entry 5 of 5

File: USPT

Nov 30, 1999

US-PAT-NO: 5994128

DOCUMENT-IDENTIFIER: US 5994128 A

TITLE: Packaging systems for human recombinant adenovirus to be
used in gene therapy

DATE-ISSUED: November 30, 1999

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP | CODE | COUNTRY |
|-------------------------|----------------|-------|-----|------|---------|
| Fallaux; Frits Jacobus | Be Leiderdorp | N/A | N/A | | NLX |
| Hoeben; Robert Cornelis | Ex Leiden | N/A | N/A | | NLX |
| Van der Eb; Alex Jan | Tw Oegstgeest | N/A | N/A | | NLX |
| Bout; Abraham | Ar Moerkapelle | N/A | N/A | | NLX |
| Valerio; Domenico | Ez Leiden | N/A | N/A | | NLX |

US-CL-CURRENT: 435/325; 424/93.21, 435/320.1, 435/455,
435/69.1, 536/23.1

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| Full | Title | Citation | Front | Review | Classification | Date | Reference |
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| Terms | Documents |
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| 19 and PER.C6 | 5 |

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Search Results - Record(s) 1 through 6 of 6 returned.

☐ 1. Document ID: US 20010010933 A1

L6: Entry 1 of 6

File: PGPB

Aug 2, 2001

PGPUB-DOCUMENT-NUMBER: 20010010933

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010010933 A1

TITLE: Use of trans-activation and CIS-activation to modulate
the persistence of expression of a transgene in an at least
E4-deficient adenovirus

PUBLICATION-DATE: August 2, 2001

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|--------------------|-----------|-------|---------|---------|
| Brough, Douglas E. | Olney | MD | US | |
| Kovesdi, Imre | Rockville | MD | US | |

US-CL-CURRENT: 435/320.1; 424/93.21; 435/235.1

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|------|-------|----------|-------|--------|----------------|------|-----------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference |
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| KWIC | Draw Desc | Image |
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☐ 2. Document ID: US 6225113 B1

L6: Entry 2 of 6

File: USPT

May 1, 2001

US-PAT-NO: 6225113

DOCUMENT-IDENTIFIER: US 6225113 B1

TITLE: Use of trans-activation and cis-activation to modulate
the persistence of expression of a transgene in an at least
E4-deficient adenovirus

DATE-ISSUED: May 1, 2001

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|--------------------|-----------|-------|----------|---------|
| Brough; Douglas E. | Olney | MD | N/A | N/A |
| Kovesdi; Imre | Rockville | MD | N/A | N/A |

US-CL-CURRENT: 435/320.1

| Full | Title | Citation | Front | Review | Classification | Date | Reference |
|------|-------|----------|-------|--------|----------------|------|-----------|
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| KWIC | Draw Desc | Image |
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☐ 3. Document ID: US 6203975 B1

L6: Entry 3 of 6

File: USPT

Mar 20, 2001

US-PAT-NO: 6203975

DOCUMENT-IDENTIFIER: US 6203975 B1

TITLE: Adenovirus and method of use thereof

DATE-ISSUED: March 20, 2001

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|--------------------|-------------|-------|----------|---------|
| Wilson; James M. | Gladwyne | PA | N/A | N/A |
| Fisher; Krishna J. | New Orleans | LA | N/A | N/A |
| Chen; Shu-Jen | Aldan | PA | N/A | N/A |
| Weitzman; Matthew | La Jolla | CA | N/A | N/A |

US-CL-CURRENT: 435/5; 435/320.1, 435/325, 435/455, 435/456,
435/457, 435/6, 435/91.4, 435/91.41, 435/91.42

| Full | Title | Citation | Front | Review | Classification | Date | Reference |
|------|-------|----------|-------|--------|----------------|------|-----------|
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| KWIC | Draw Desc | Image |
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☐ 4. Document ID: US 6001557 A

L6: Entry 4 of 6

File: USPT

Dec 14, 1999

US-PAT-NO: 6001557

DOCUMENT-IDENTIFIER: US 6001557 A

TITLE: Adenovirus and methods of use thereof

DATE-ISSUED: December 14, 1999

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|--------------------|-------------|-------|----------|---------|
| Wilson; James M. | Gladwyne | PA | N/A | N/A |
| Fisher; Krishna J. | New Orleans | LA | N/A | N/A |
| Chen; Shu-Jen | Aldan | PA | N/A | N/A |
| Weitzman; Matthew | La Jolla | CA | N/A | N/A |

US-CL-CURRENT: 435/5; 435/239, 435/320.1, 435/325, 435/366,
435/367, 435/368, 435/369, 435/6, 435/91.4, 530/300

| Full | Title | Citation | Front | Review | Classification | Date | Reference |
|------|-------|----------|-------|--------|----------------|------|-----------|
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| KWIC | Draw Desc | Image |
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☐ 5. Document ID: WO 200153504 A1

L6: Entry 5 of 6

File: DWPI

Jul 26, 2001

DERWENT-ACC-NO: 2001-451910

DERWENT-WEEK: 200148

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TITLE: Vector system for packaging a replication defective adenovirus (Ad) based on Ad serotype comprises a first serotype packaging sequence, a second serotype sequence unable to package and a sequence encoding a first serotype packaging protein

INVENTOR: IMPERIALE, M J

PRIORITY-DATA: 2000US-0488867 (January 21, 2000)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|-----------------|---------------|----------|-------|------------|
| WO 200153504 A1 | July 26, 2001 | E | 057 | C12N015/86 |

INT-CL (IPC): C12N 5/10; C12N 15/86

| Full | Title | Citation | Front | Review | Classification | Date | Reference |
|------|-------|----------|-------|--------|----------------|------|-----------|
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☐ 6. Document ID: AU 200040761 A, WO 200060106 A1

L6: Entry 6 of 6

File: DWPI

Oct 23, 2000

DERWENT-ACC-NO: 2000-665014

DERWENT-WEEK: 200107

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TITLE: Adenoviral vector delivery system comprising a helper adenovirus vector, useful for introducing a gene to correct a genetic defect in an organism

INVENTOR: ANTON, M; GRAHAM, F L ; RUDNICKI, M A

PRIORITY-DATA: 1999US-0286874 (April 6, 1999)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|-----------------|------------------|----------|-------|-------------|
| AU 200040761 A | October 23, 2000 | N/A | 000 | C12N015/861 |
| WO 200060106 A1 | October 12, 2000 | E | 053 | C12N015/861 |

INT-CL (IPC): A61K 48/00; C12N 15/63; C12N 15/861

| Full | Title | Citation | Front | Review | Classification | Date | Reference |
|------|-------|----------|-------|--------|----------------|------|-----------|
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| Terms | Documents |
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| adenovir\$ near10 capsid near5 serotype\$ | 6 |

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L1: Entry 7 of 9

File: USPT

Nov 30, 1999

DOCUMENT-IDENTIFIER: US 5994128 A

TITLE: Packaging systems for human recombinant adenovirus to be used in gene therapy

BSPV:

5. After transfection of HER cells with construct pIG.E1B (FIG. 4), seven independent cell lines could be established. These cell lines were designated PER.C1, PER.C3, PER.C4, PER.C5, PER.C6, PER.C8 and PER.C9. PER denotes PGK-E1-Retinoblasts. These cell lines express E1A and E1B proteins, are stable (e.g. PER.C6 for more than 57 passages) and complement E1 defective adenovirus vectors. Yields of recombinant adenovirus obtained on PER cells are a little higher than obtained on 293 cells. One of these cell lines (PER.C6) has been deposited at the ECACC under number 96022940.

DEPR:

Ad5-E1-transformed human embryonic retina (HER) cells were generated by transfection of primary HER cells with plasmid pIG.E1A.E1B. Transformed cell lines were established from well-separated foci. We were able to establish seven clonal cell lines, which we called PER.C1, PER.C3, PER.C4, PER.C5, PER.C6, PER.C8 and PER.C9.

DEPR:

One of the PER clones, namely PER.C6, has been deposited at the ECACC under number 96022940.

DEPR:

Yields of recombinant adenovirus obtained after inoculation of 293, 911, PER.C3, PER.C5 and PER.C6 with different adenovirus vectors are presented in Table II.

DETL:

TABLE II

| Passage | Producer | Cell number | IG.Ad.CMV.lacZ | IG.Ad.CMV.TK |
|---------------|----------|-------------|----------------|--------------|
| 293 | 6.0 | 5.8 | 24 | 34 |
| 911 | 17.5 | 911 | 8 | 14 |
| PER.C3 | 180 | 59.5 | PER.C3 | 17 |
| PER.C5 | 40 | 25.8 | PER.C5 | 15 |
| <u>PER.C6</u> | 36 | 10 | 22 | 58 |
| Mean | 44 | 102 | | |

Yields .times. 10.sup.-8 pfu/T175 flask. Yields of different recombinant adenoviruses obtained after inoculation o adenovirus E1 packaging cell lines 293, 911, PER.C3, PER.C5 and PER.C6. The yields are the mean of two different experiments. IG.Ad.CMV.lacZ and IG.Ad.CMV.TK are described in patent

IG.Ad.CMV.lacZ and IG.Ad.CMV.TK are described in patent application EP 95 20 2213 The construction of IG.Ad.MLPI.TK is described in this patent application Yields of virus per T80 flask were determined by plaque assay on 911 cells, as described [Fallaux, 1996 #1493